

What is claimed is:

1. A scroll comprising an orbiting spiral and a stationary spiral each composed of a spiral body and a corresponding base plate, characterized by using of metal for making one of these spirals and using elastic and plastic non-metal material for the making the other spiral to provide a sealing effect and a mutual axial and radial compensating effect during orbiting.
5
2. A scroll as claimed in Claim 1 wherein one of the orbiting spiral and the stationary spiral is made of metal while the other is made of elastic and plastic non-metal material.
10
3. A scroll as claimed in Claim 1 wherein the spiral body for one of the spirals has a frame.
15
4. A scroll as claimed in Claim 3 wherein the frame is made of porous sheet.
5. A scroll as claimed in Claim 4 herein the porous sheet is a metal or plastic sheet.
20
6. A scroll as claimed in Claim 3 wherein the frame and the base plate are formed as an integrated part.
7. A scroll as claimed in Claim 1 or 2 wherein the non-metal material is either engineering plastic product, or phenolic resin or epoxy resin.
25
8. A scroll manufacture method characterized by the following steps:
 - making spiral bodies with sheet;
 - fixing each spiral body to a metal base plate; and
 - coating the outer surface of each spiral body and the bottom of each metal base plate
30
 - contacting with the spiral body with an elastic material, or forming thereon a plastic layer by molding.
9. A scroll manufacture method as claimed in Claim 8 wherein the said sheet is formed with a plurality of pores.
35
10. A scroll manufacture method as claimed in Claim 8 herein the said sheet is a metal or plastic sheet.
11. A scroll manufacture method as claimed in Claim 8 wherein the said elastic material is

either polytetrafluoroethylene, or polyurethane or synthetic rubber.

12. A scroll manufacture method characterized by the following steps:

- 5 - coating the sheet with elastic material;
- making spiral bodies; and
- fixing each spiral body to a metal base plate.

10 13. A scroll manufacture method as claimed in Claim 12 wherein the said sheet is formed with a plurality of pores.

14. A scroll manufacture method as claimed in Claim 12 wherein the said sheet is a metal or
15 plastic sheet.

15. A scroll manufacture method as claimed in Claim 12 wherein the said elastic material is either polytetrafluoroethylene, or polyurethane or synthetic rubber.

20 16. A scroll manufacture method characterized by the following steps:

- Forming of a frame for spiral body on each metal base plate by molding; and
- Coating the frame and the metal base plate with elastic material, or forming thereon a
25 plastic layer by molding.

17. A scroll manufacture method as claimed in Claim 16 wherein the metal base plate and the frame for the spiral body are formed as an integrated part by molding.

30 18. A scroll manufacture method as claimed in Claim 16 wherein the said elastic material is either polytetrafluoroethylene, or polyurethane or synthetic rubber.

19. A scroll manufacture method characterized by forming of the scroll on the metal base plate with elastic material by molding.

35 20. A scroll manufacture method as claimed in Claim 19 wherein the said elastic material is either polytetrafluoroethylene, or polyurethane or synthetic rubber.